

i. Executive Summary

PROGRAM EXECUTIVE OFFICER LAND SYSTEMS MARINE CORPS ADVANCED **TECHNOLOGY INVESTMENT PLAN 2017**



TABLE OF CONTENTS

		Line Up Front	
iii. Ta		f Contents	
1.0	Intr	oduction	pg. 1
2.0	S&T	Collaboration and Engagement	pg. 5
3.0	Futu	ures	pg. 17
4.0	Top Technical Issues		pg. 29
5.0	PEO LS S&T Focus Areas		pg. 31
	5.1	Power and Energy	pg. 33
		5.1.1 Fuel Efficiency	pg. 33
		5.1.2 Intelligent Power and Thermal Management	_
	5.2	Survivability and Mobility	pg. 41
		5.2.1 Survivability	pg. 41
		5.2.1.1 Fuel Containment/Fire Suppression	pg. 45
		5.2.1.2 Safety	pg. 45
		5.2.2 Mobility	pg. 46
		5.2.2.1 Crew Visibility	pg. 47
		5.2.2.2 Corrosion	pg. 48
		5.2.2.3 Autonomy	pg. 48
		5.2.2.4 Weight Reduction	pg. 51
	5.3	Modeling and Simulation	pg. 59
	5.4	Open Plug-and-Play Communication Architecture	pg. 65
6.0	Warfare Centerspg.		
7.0	MCWL/DARPA Efforts		pg. 89
8.0	PEC	LS Programs	pg. 97
	8.1	Assault Amphibious Vehicle	pg. 101
	8.2	Amphibious Combat Vehicle Phase 1 Increment 1	pg. 109
	8.3	Common Aviation Command and Control System	pg. 117
	8.4	Ground Based Air Defense	pg. 125
	8.5	Ground/Air Task Oriented Radar	pg. 133
	8.6	Joint Light Tactical Vehicle	pg. 139
	8.7	Logistics Vehicle Systems Replacement	pg. 147
	8.8	Medium Tactical Vehicle Replacement	pg. 157
	8.9	M-ATV/Cougar/Buffalo	pg. 16
	8.10	Lightweight 155mm Howitzer	pg. 177
9.0	S&T	Venue List	pg. 183